

IN THE UNITED STATES PATENT & TRADEMARK OFFICE

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Tire Pressure Monitoring System

NON-Provisional CIP Patent Application

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ABSTRACT OF THE DISCLOSURE

A System of monitoring the air pressure in the tires of a moving vehicle continuously in real time for measuring the pressure in a rotating tire and transmitting the information via magnetic pulses to a sensor pickup located near the tire, but on a non-rotating part of the vehicle, for transmittal via wire to a micro controller for conversion to air pressure units and display. It comprises a sensor module for each wheel, and an electronics module in the passenger compartment. It computes the air pressure by measuring the phase angle between a fixed magnet and a magnet placed on a piston in an air cylinder within the tire.

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